BIOMETRICS

Contents of Volume V

ABSTRACTS	76
NEWS AND NOTES	94, 183, 256, 345
QUERIES	68, 174, 250, 335
THE BIOMETRIC SOCIETY	90, 180, 254, 341

ARTICLES and ABSTRACTS

ANSCOMBE, F. J. The Statistical Analysis of Insect Counts Based on the Negative Binomial Distribution 165

BALDWIN, A. L. *Abstract* #59 76

BARTLETT, M. S., Fitting a Straight Line when Both Variables are Subject to Error 207

BERKSON, JOSEPH, *Abstract* #79, 86
#81 87

BERNSTEIN, M. E., *Abstract* #80 86

BLISS, C. I., and NEELY TURNER, *Abstract* #72 83

BROWN, G. W., *Abstract* #67 80

CHASSAN, J. B., On a Statistical Approximation to the Infection Interval 243

COLLINS, S. W., *Abstract* #70 82

CORNFIELD, JEROME and NATHAN MANTEL, *Abstract* #77 85

CRONBACH, L. J., *Abstract* #63 78

FEDERER, W. T. The General Theory of Prime-Power Lattice Designs. III. The Analysis for p^s Varieties in Blocks of p Plots with more than 3 Replicates 144

FINNEY, D. J. The Choice of A Response Metameter in Bio-Assay 261

FISHER, R. A. A Biological Assay of Tuberculins 300

FRY, F. E. J. Statistics of a Lake Trout Fishery 27

GARDNER, ERIC F. *Abstract* #68 80

GREEN, M. W. *Abstract* #73 83

GUETZKOW, HAROLD *Abstract* #66 79

HARSHBARGER, BOYD. Triple Rectangular Lattices 1

HARSHBARGER, BOYD, *Abstract* #78 85

HEALY, M. J. R. Routine Computation of Biological Assays Involving a Quantitative Response 330

HORN, DANIEL, *Abstract* #65 79

HUNT, J. M., see LEONARDS Kogan

IPSEN, J., *Abstract* #74 84

JERNE, N. K. and E. C. WOOD, The Validity and Meaning of the Results of Biological Assays 273

KOGAN, LEONARDS and J. M. HUNT, *Abstract* #61 77

KUBIS, J. F., *Abstract* #60 76

MANTEL, NATHAN, see JEROME CORNFIELD

MARCUSE, SOPHIE. Optimum Allocation and Variance Components in Nested Sampling with an Application to Chemical Analysis 189

MASUYAMA, MOTOSABURO. On a One-Dimensional Diffusion Method of Assaying Antibiotic Substances and Its Fundamental Formulas 317

MATHER, K. The Analysis of Extinction Time Data in Bio-assay 127

MILLER, R. B. Problems of the Optimum Catch in Small Whitefish Lakes 14

QUENOUILLE, M. H. A Relation Between the Logarithmic, Poisson and Negative Binomial Series 162

RABIN, A. I., *Abstract* #62 77

REIERSOL, OLAV, *Abstract* #82 88

ROUNSEFELL, G. A. Methods of Estimating Total Runs and Escapements of Salmon 115

SANDERS, B. S., *Abstract* #71 82
SCHUCK, H. A. Relationships of Catch to Changes in Population Size of New England Haddock 213
STEPHENSON, WILLIAM, *Abstract* #64 78
TUKEY, J. W., *Abstract* #75 84
#76 84
TUKEY, J. W. Comparing Individual Means in the Analysis of Variance 99
One degree of Freedom for Non-Additivity 232
TURNER, NEELY, see C. I. BLISS
VOTAW, D. F., JR., *Abstract* #69 81
WOOD, E. C., see N. K. JERNE

INDEX

Additivity, 84, 232
Adjusted means, 11, 157
Age distribution, 17, 31, 219
Agronomy, 252
Analysis of covariance, 72, 178, 289
Analysis of variance, 4, 72, 84, 85, 99, 149, 176, 192, 232, 250
Animal breeding, 71
Approximate significance levels, 102
Bacteriology, 127, 162, 317, 333
Binomial series, 162, 165
Biological assay, 83, 86, 127, 211, 261, 273, 300, 317, 330
Biometric Society, 90, 180, 254, 341
Biometry, 86, 243
Case histories, 76
Chemistry, 189
Chi square, 83, 86, 140, 251, 301
Clinical statistics, 76
Coefficient of variation, 161
Components of variance, 74, 155, 189
Computing methods, 330
Confidence limits, 178, 212
Confounding, 74, 145, 158
Correlation, 30, 42, 123
Curve fitting, 207
Cycles, 120, 125
Degrees of freedom, 232
Dependent variable, 73
Design of experiments, 1, 70, 85, 144, 169, 174, 178, 278, 283, 289
Discriminant functions, 80
Distributions, 109, 162, 165
Dosage-mortality curves, 83, 85
Drug dosages, 83
Efficiency, 68, 156, 167, 208, 288
Empirical formula, 319
Entomology, 68, 83, 165
Epidemiology, 243
Error mean square, 72, 178
Error theory, 301
Estimation, 68, 84, 131, 166, 168, 192, 208, 288, 290
Expectations, 308
Experimental sampling, 111
Extinction time, 127
Extreme deviate, 107, 250
Fiducial limits, 177, 266, 288, 290, 311
Field experiments, 1, 85, 144, 252
Fisheries, 14, 27, 115, 213
Fitting curve, 207
Fitting distribution, 165
Fractional replication, 73
F-test, 241
Growth, 42
Incomplete blocks, 144, 154
Identification, 88
Independent variable, 73
Infection interval, 243
Information, 155
Judgements, 77
Largest difference, 99, 250
Latin square, 1, 71, 102, 179, 305
Lattice, 1, 144
Least squares, 208, 212
Linear hypothesis, 73
Logarithmic series, 162
Logarithmic transformation, 72
Loglog transformation, 130
Mathematical biology, 27, 117, 243, 323
Mathematical model, 73
Maximum likelihood, 83, 85, 86, 130
Medical statistics, 95
Morbidity, 82, 243
Mortality, 24, 34, 57
Multivariate analysis, 81
Negative binomial, 162, 165
Nested sampling, 189
Nomography, 330
Normal distribution, 325
truncated, 84
Normality, 263, 279, 282, 287
departure from, 265
Null hypothesis, 280
Nutrition, 178, 250
Optimum catch, 14, 24
Optimum sampling, 189
Physiology, 176

Poisson distribution, 83, 129, 162
Population management, 14, 125
Pseudo-effects, 145
Pseudofactors, 145
Psychology, 76, 77, 78, 79, 80
Quadrat sampling, 163
Quality control, 83
Randomization, 178, 279, 286
Randomized blocks, 154, 174
Regression, 68, 87, 88, 123, 140, 228, 237
  multiple, 119
  partial, 175
Replication, 73, 179
Reproduction, 49
Sampling, 111, 174, 189, 205
Scatter diagram, 30, 41, 51, 122, 230, 238, 247
Scedasticity, 261, 283, 287
Sex ratio, 86
Significance, 102, 236
Skewness, 263
Soil science, 174
Standard error, 11, 141, 159
Statistical model, 261, 273
Stratified sampling, 174, 205
Studentized deviate, 107
Surveys, 82, 165
Teaching statistics, 94, 96
Transformations, 73, 86, 130, 166, 167, 172, 241, 261, 283
Trend, 41
Triple lattice, 1
t-test, 101, 124
Tuberculin, 300
Uniformity trials, 144
Variance, 6
  allocation of, 189
  interblock, 5, 151
  intrablock, 5, 154
  sampling, 140
  see also Analysis of—, Components of—
Weights, 5, 306
Yield trials, 252